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May 18, 1989

DERWENT-ACC-NO: 1989-188499

DERWENT-WEEK: 198926

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TITLE: Pattern forming material - comprises polymers contg. hydroxy:styrene and silane units e.g. O-hydroxy:styrene and vinyl:tri-methyl:silane and photo-crosslinker

PATENT-ASSIGNEE:

ASSIGNEE

CODE

NIPPON ZEON KK

JAPG

PRIORITY-DATA: 1987JP-0285877 (November 12, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 01126641 A</u>	May 18, 1989		005	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 01126641A	November 12, 1987	1987JP-0285877	

INT-CL (IPC): G03C 1/71; G03F 7/08

ABSTRACTED-PUB-NO: JP 01126641A

BASIC-ABSTRACT:

Material comprises polymers having structural units of formula are H, alkyl, aralkyl, aralkyl, , halogen, R4-R6 are alkyl, aryl, alkylsiloxo, alkoxy, aralkyl, alkenyl. An example of formula (I) is o-hydroxystyrene, alpha-methyl-3-bromo-4-hydroxystyrene, etc. An example, of formula (II) is vinyltrimethylsilane, bis(tri ethylsiloxo)methylvinylsilane, etc. The photocrosslinking agent is pref. 1-azide-pyrene, 4,4'-diazide benzophenone, etc. Amt. is 1-20 wt. pts. (pref. 3-10) per 100 of the polymer.

USE/ADVANTAGE - Used for semi-conductor element, magnetic bubble memory element, IC, etc. Prod. excels in resistance to oxygen RIE and is effective in fine fabrication of substrates with step gaps.

CHOSEN-DRAWING: Dwg.0/0

TITLE-T ERMS: PATTERN FORMING MATERIAL COMPRISE POLYMER CONTAIN HYDROXY STYRENE SILANE UNIT HYDROXY STYRENE VINYL TRI METHYL SILANE PHOTO CROSSLINK

DERWENT-CLASS: A26 A85 G06 L03 P83 P84 U11

CPI-CODES: A04-A; A04-C; A12-E07C; A12-E08A2; A12-L02B2; G06-D06; G06-F03C; L03-H04E2; L04-C05;

EPI-CODES: U11-A06;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0036 0202 0207 0208 0226 0231 2016 2020 2285 2300 2742 3279 2805 0327
0355 1054 1214 1235

Multipunch Codes: 014 02& 034 04- 045 05- 055 059 062 116 229 231 27& 341 353 473
48- 524 58& 623 627 658 681 694 720 014 02& 034 04- 045 05- 062 116 134 229 231 27&
341 353 473 48- 524 58& 623 627 658 681 694 720 726 014 02& 034 04- 045 05- 055 059
062 134 229 231 27& 341 353 473 48- 524 58& 623 627 658 681 694 726 014 02& 034 04-
045 05- 055 059 062 135 137 229 231 27& 341 353 473 48- 524 58& 623 627 658 681 694
014 02& 034 04- 045 05- 062 134 135 137 229 231 27& 341 353 473 48- 524 58& 623 627
658 681 694 726 014 02& 034 04- 045 05- 062 116 135 137 229 231 27& 341 353 473 48-
524 58& 623 627 658 681 694 720

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1989-083399

Non-CPI Secondary Accession Numbers: N1989-143869